

Central Event Handler

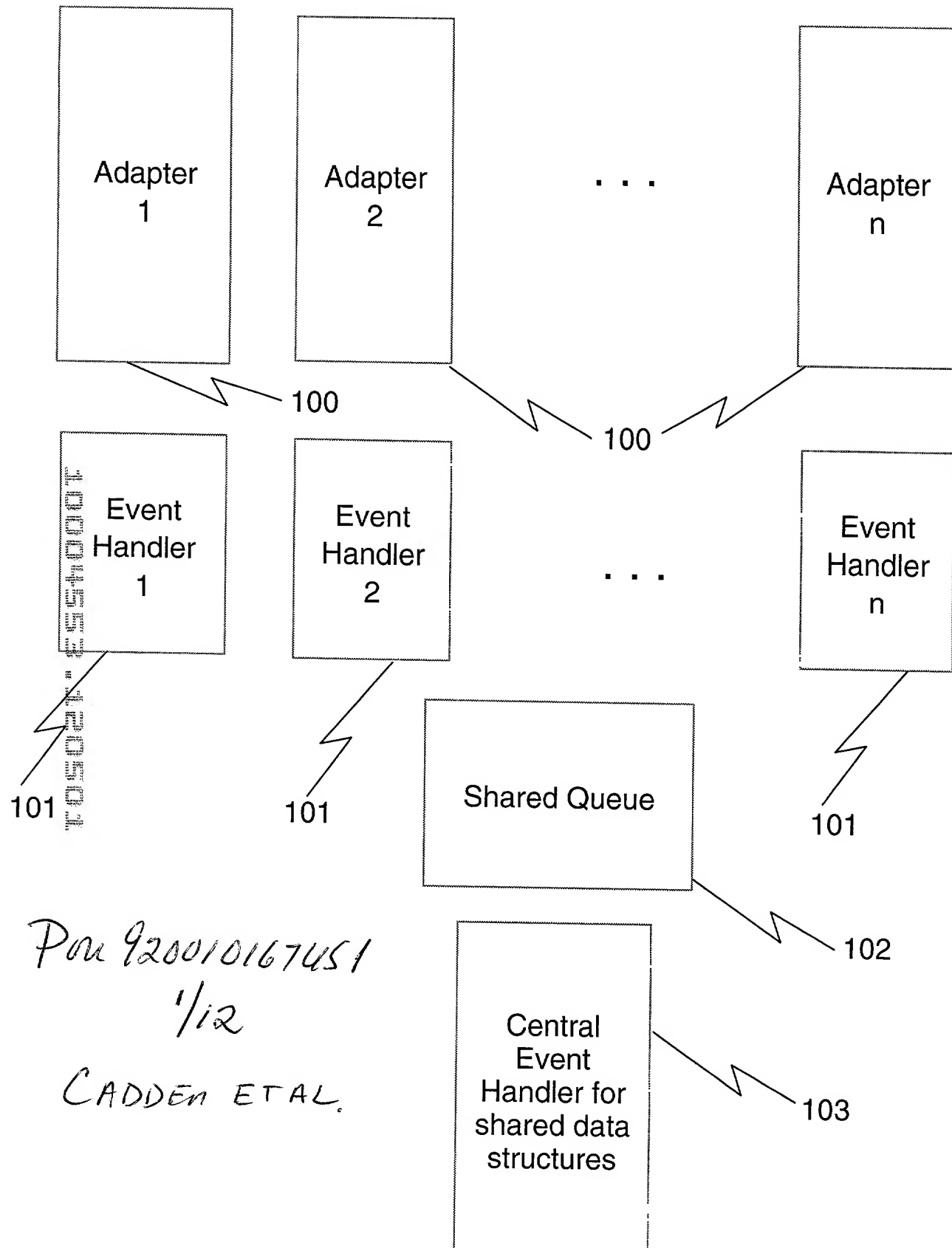
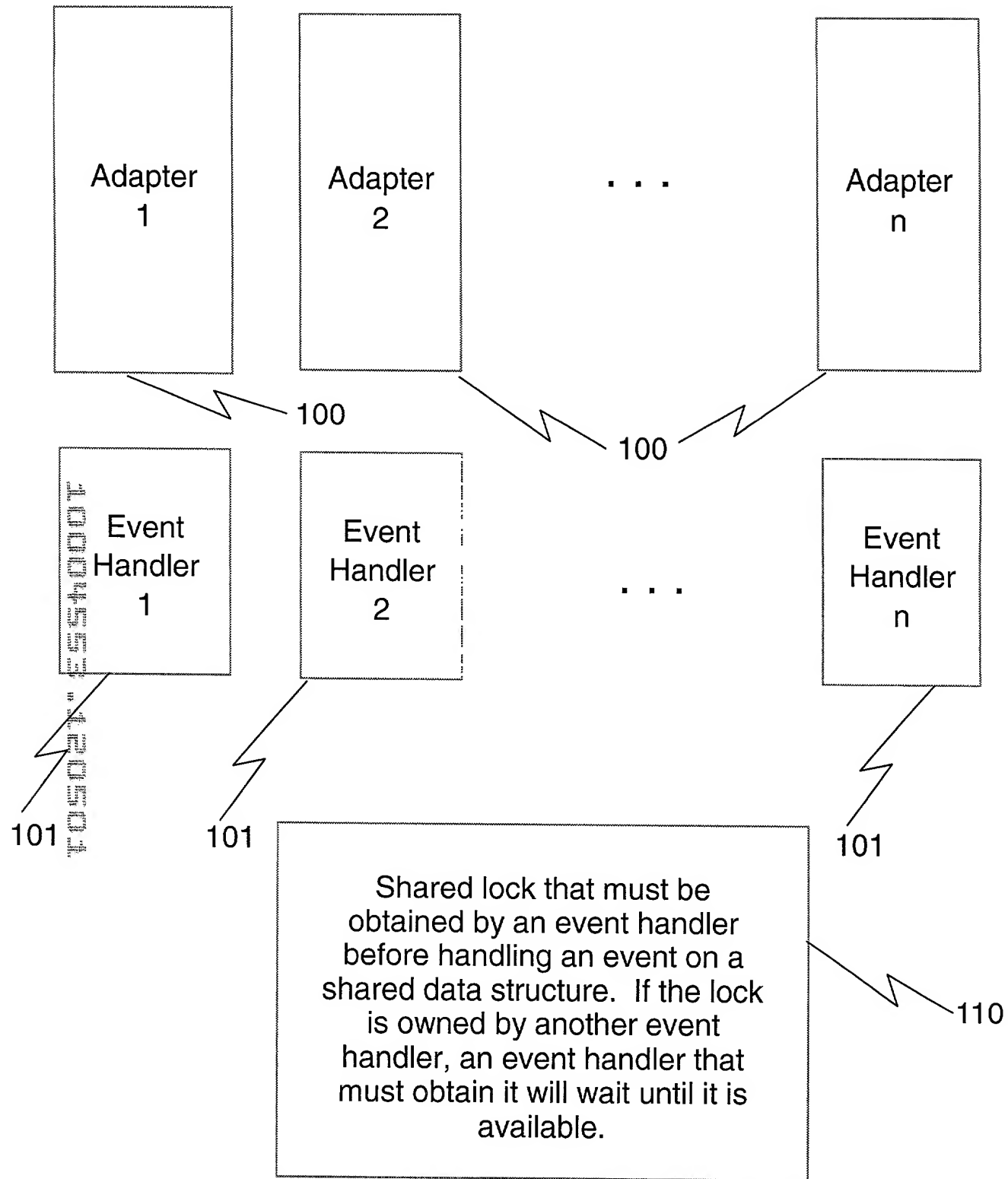


Figure 1

Shared Lock

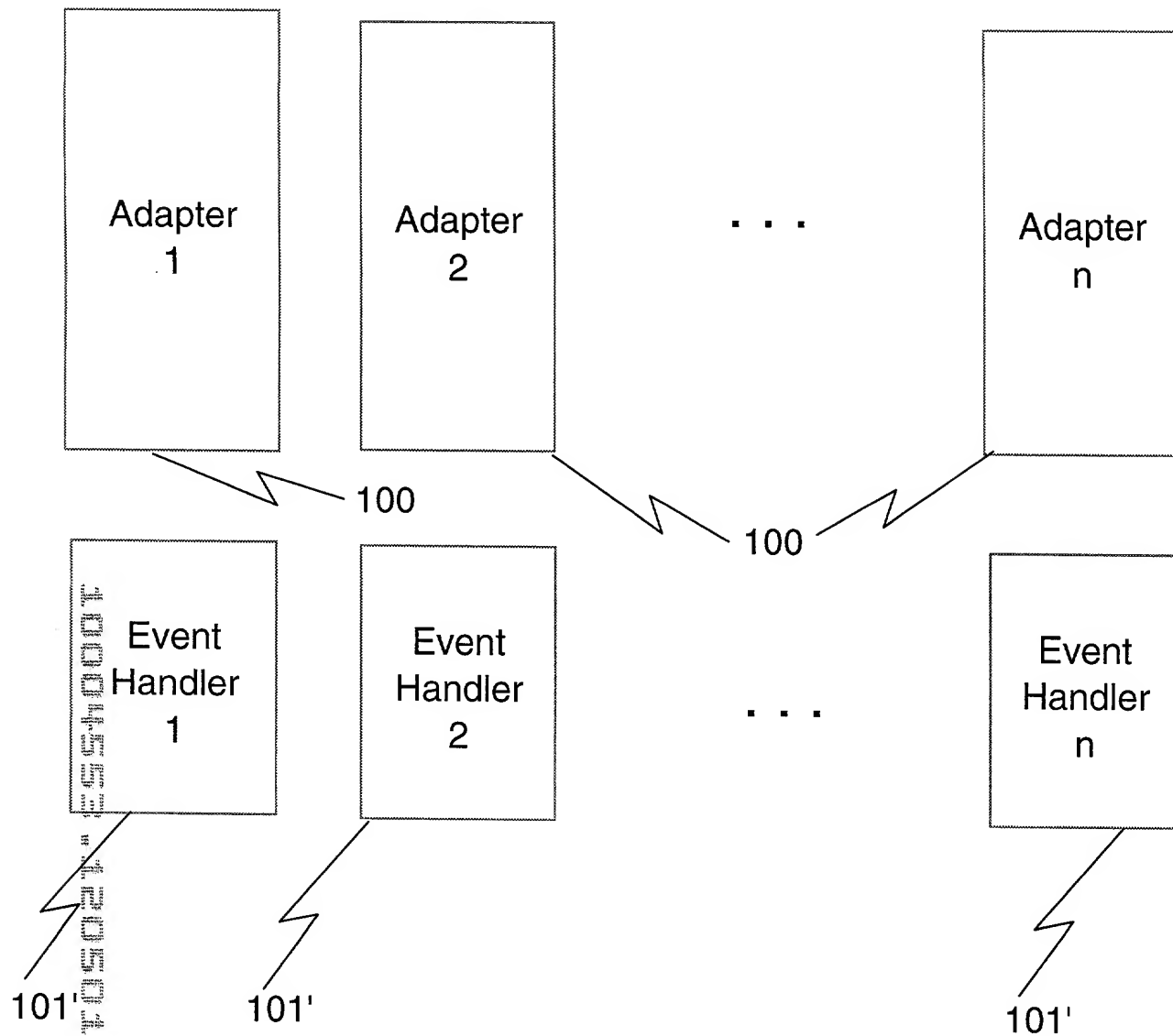


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Figure 2

Task Structure



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Figure 3

Method Employing Bit Arrays

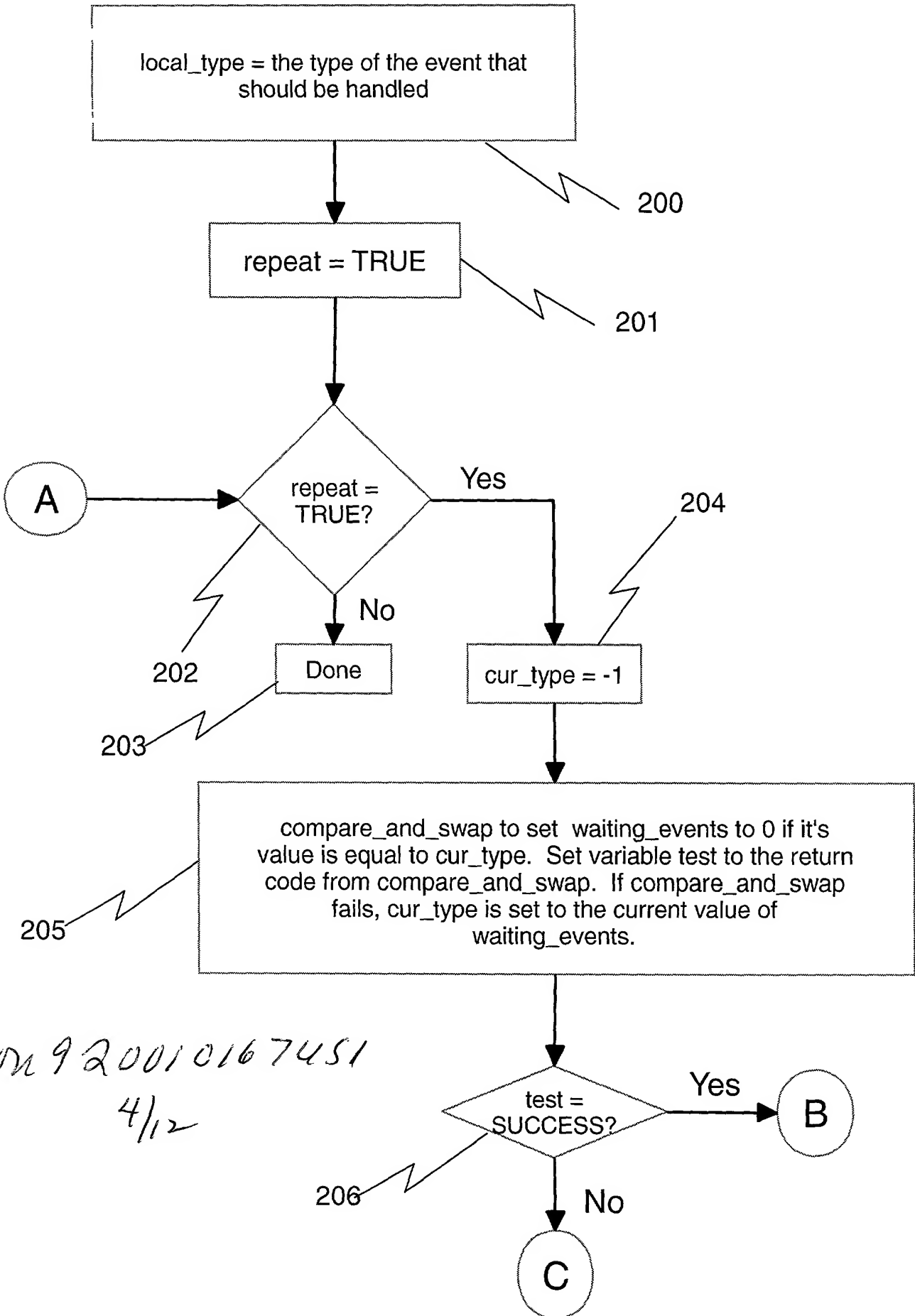


Figure 4A

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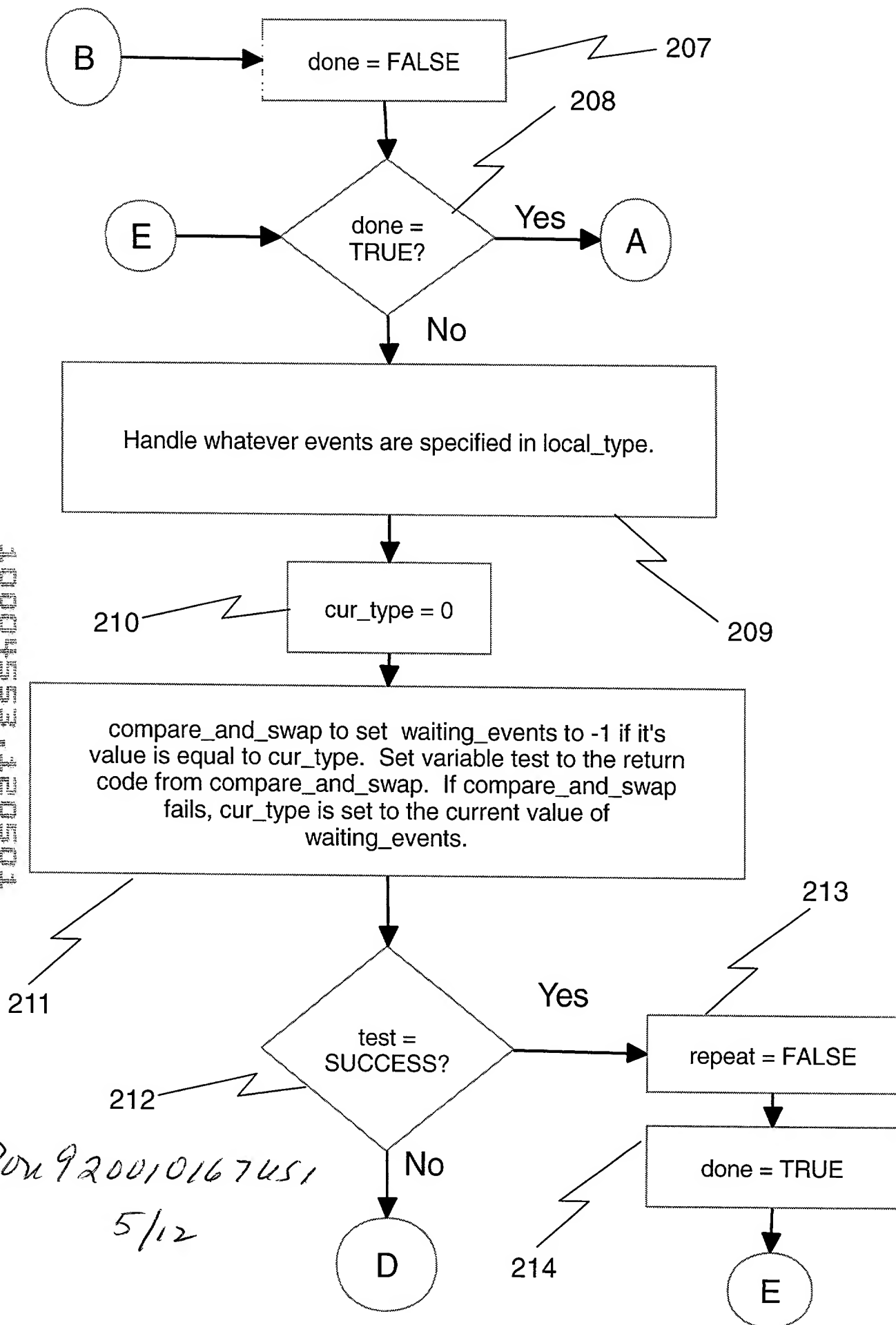
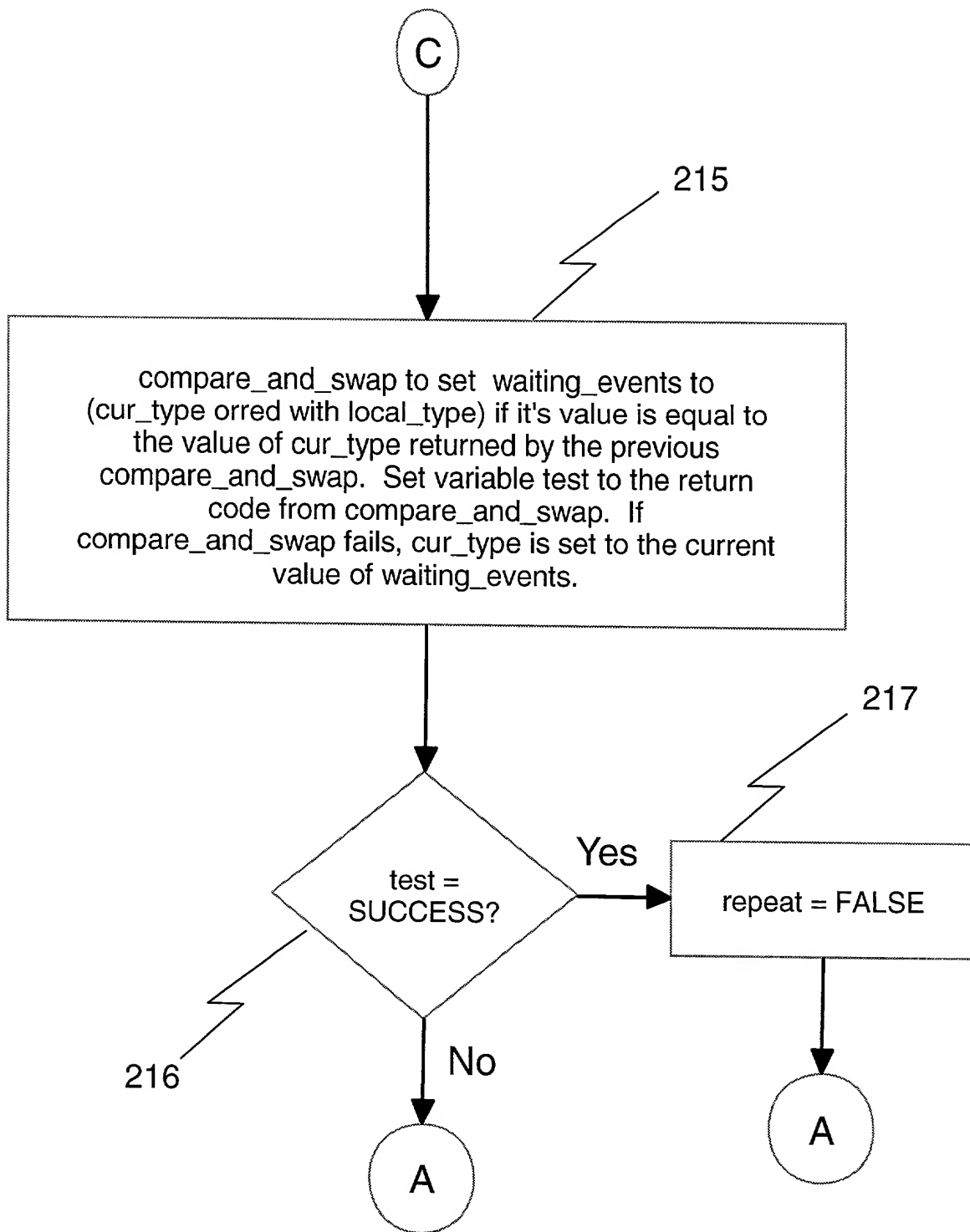


Figure 4B



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Figure 4C

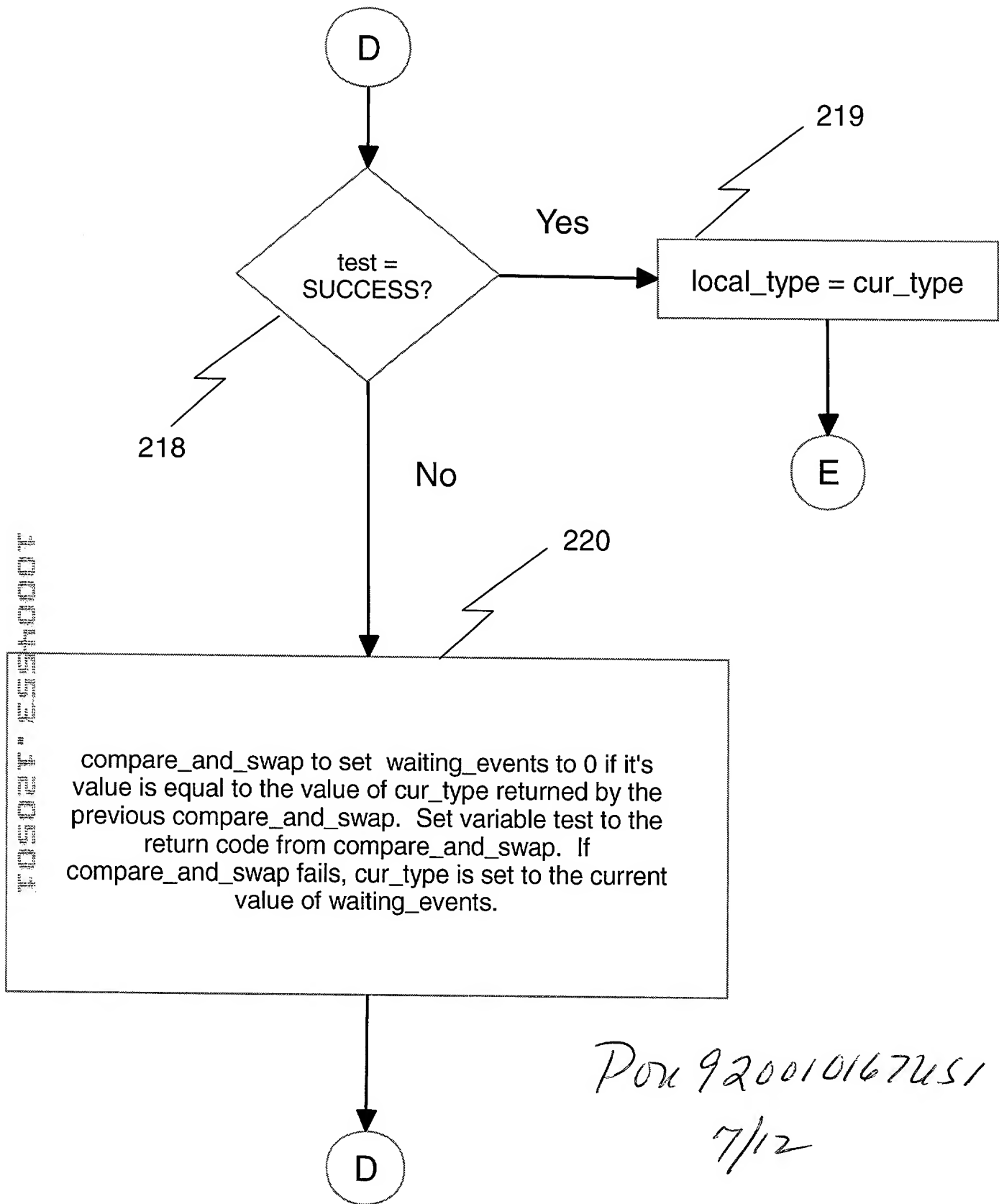


Figure 4D

Method Employing Linked Lists

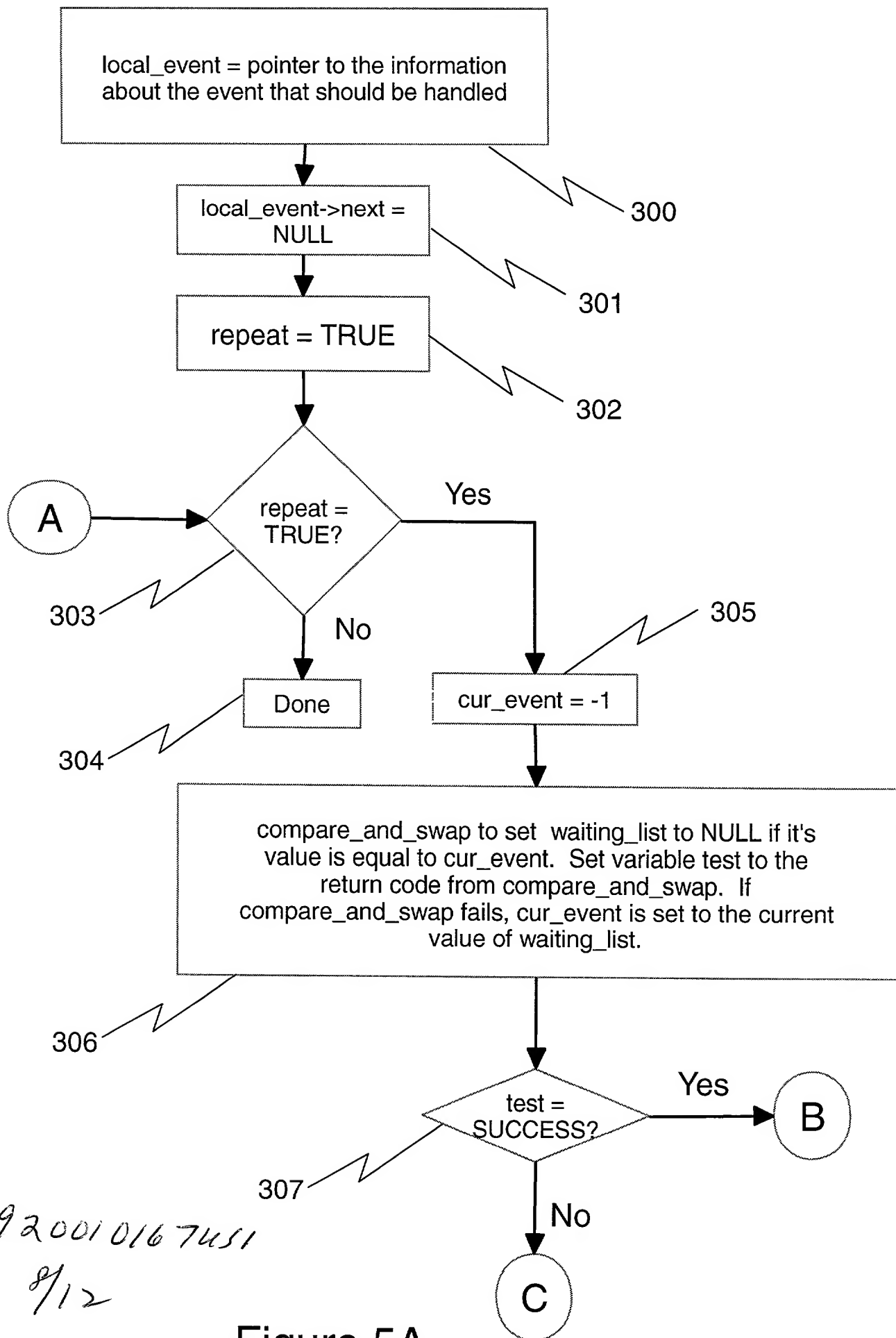


Figure 5A

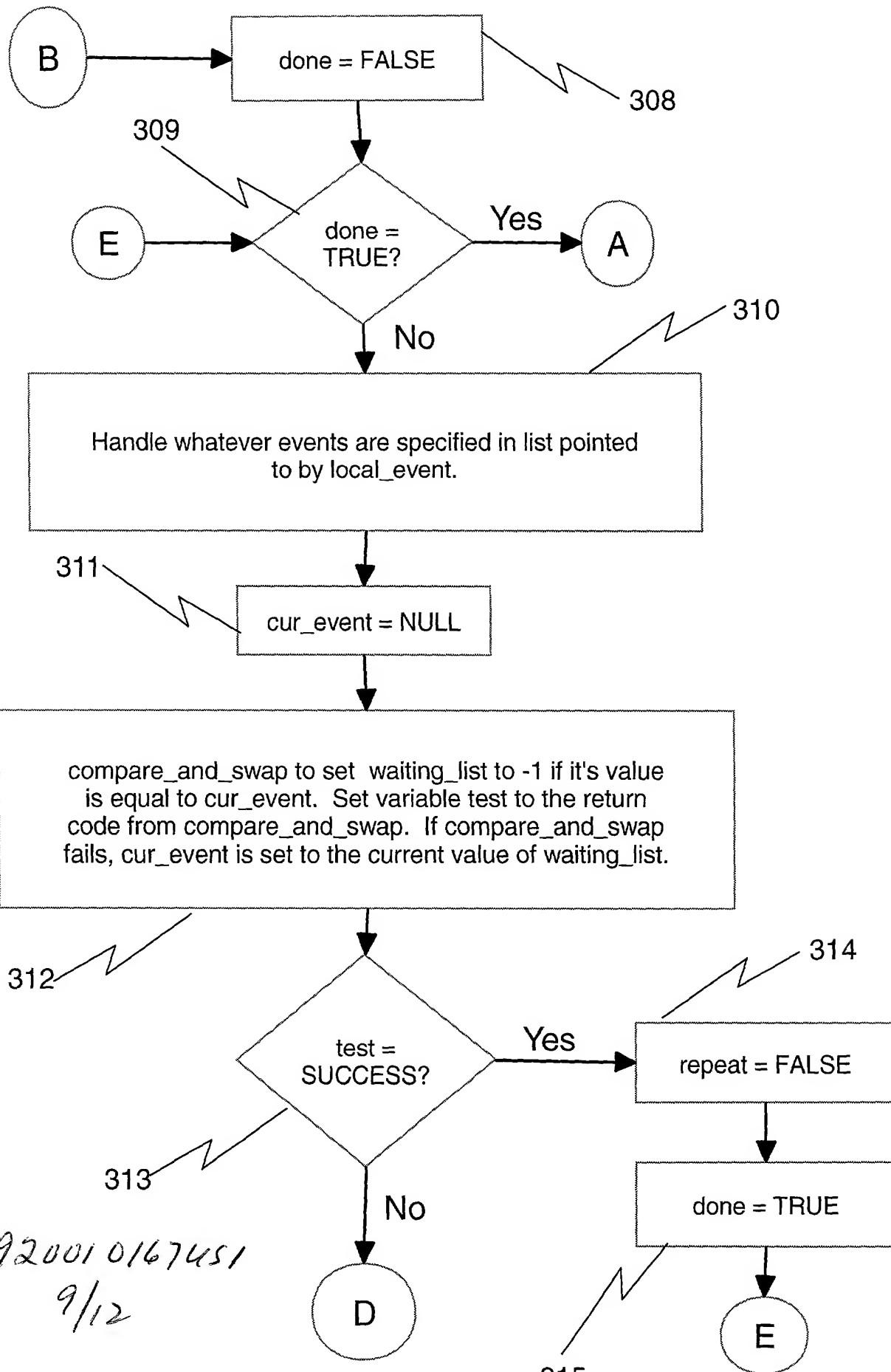
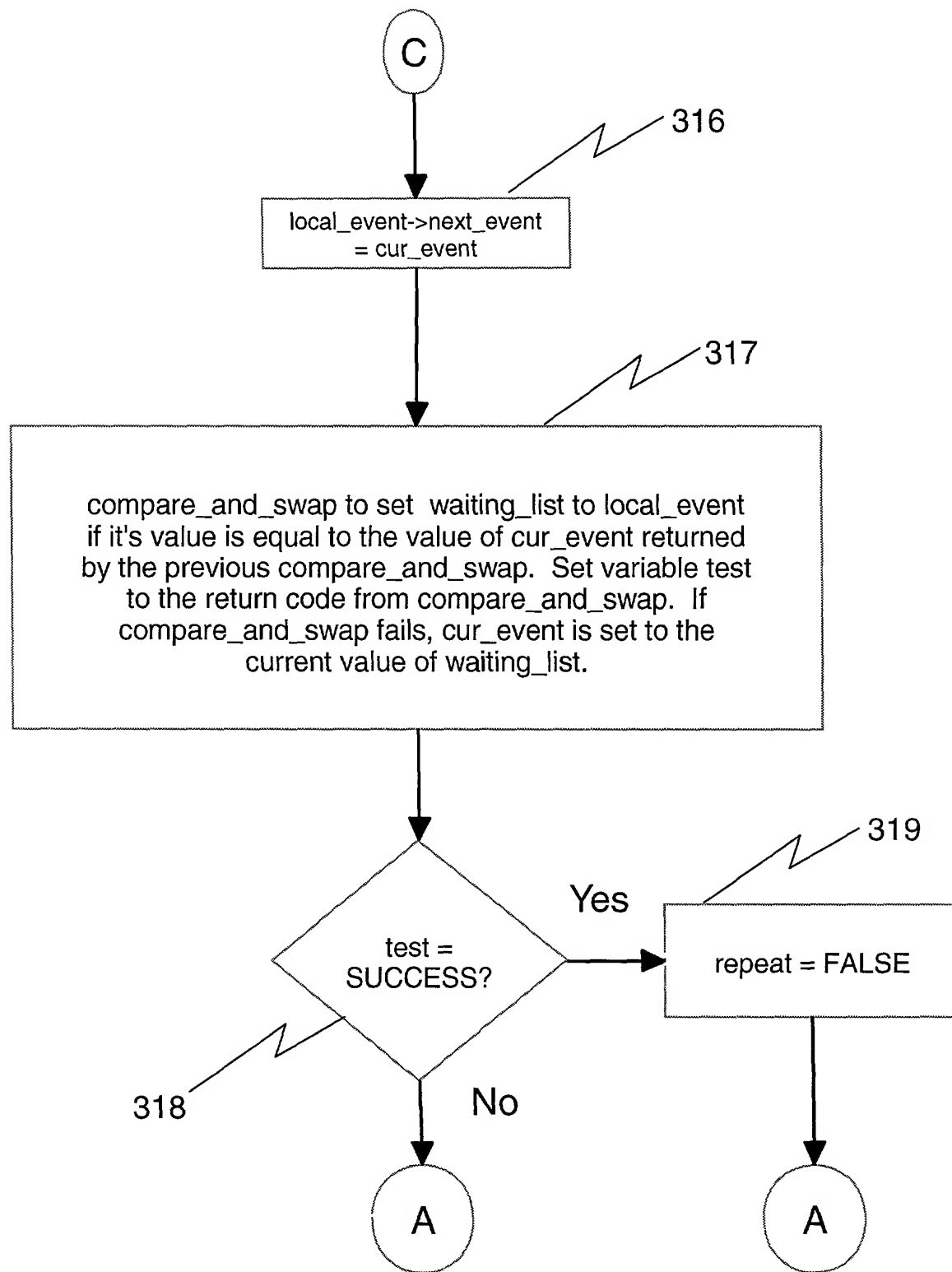


Figure 5B

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Figure 5C

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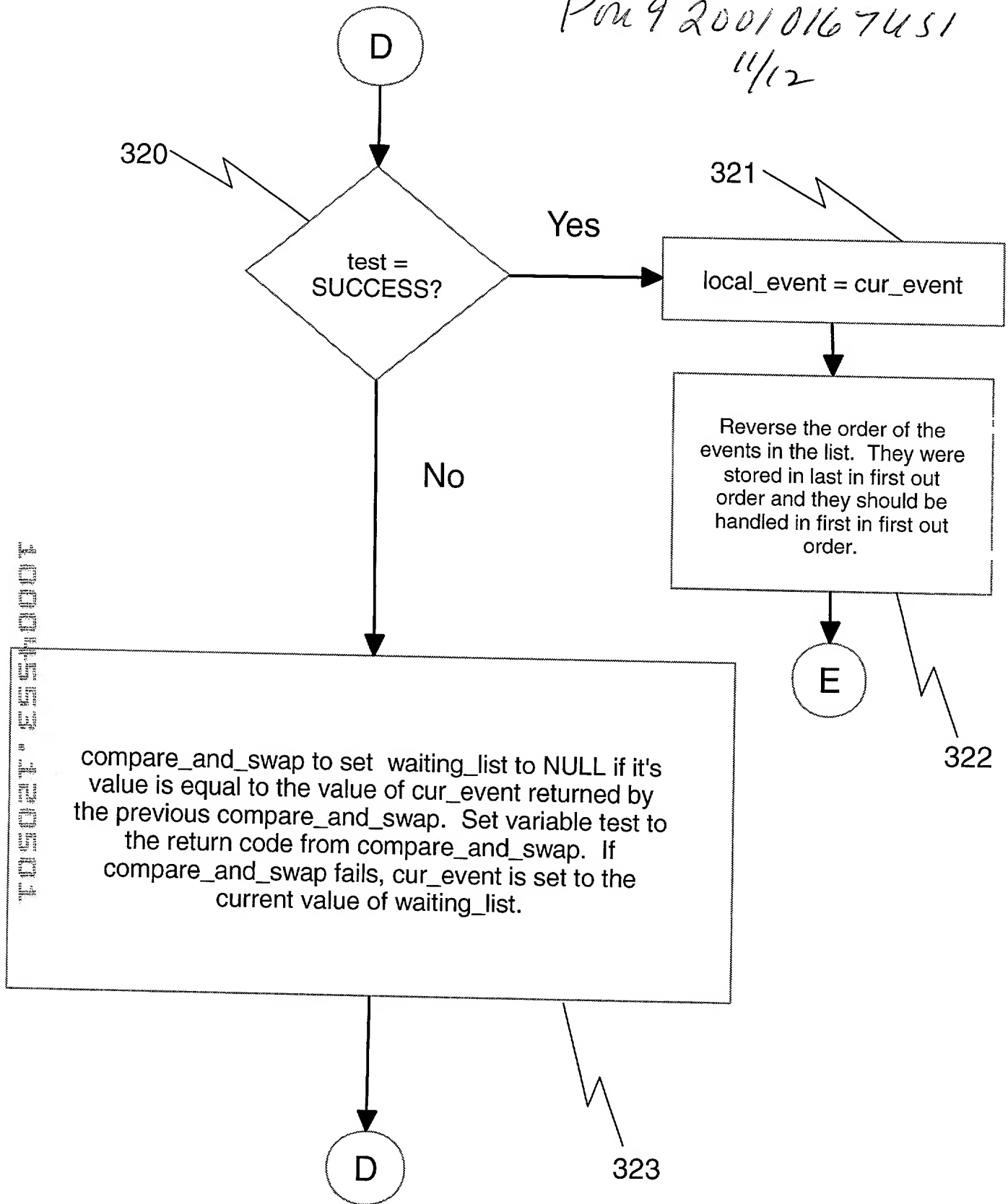
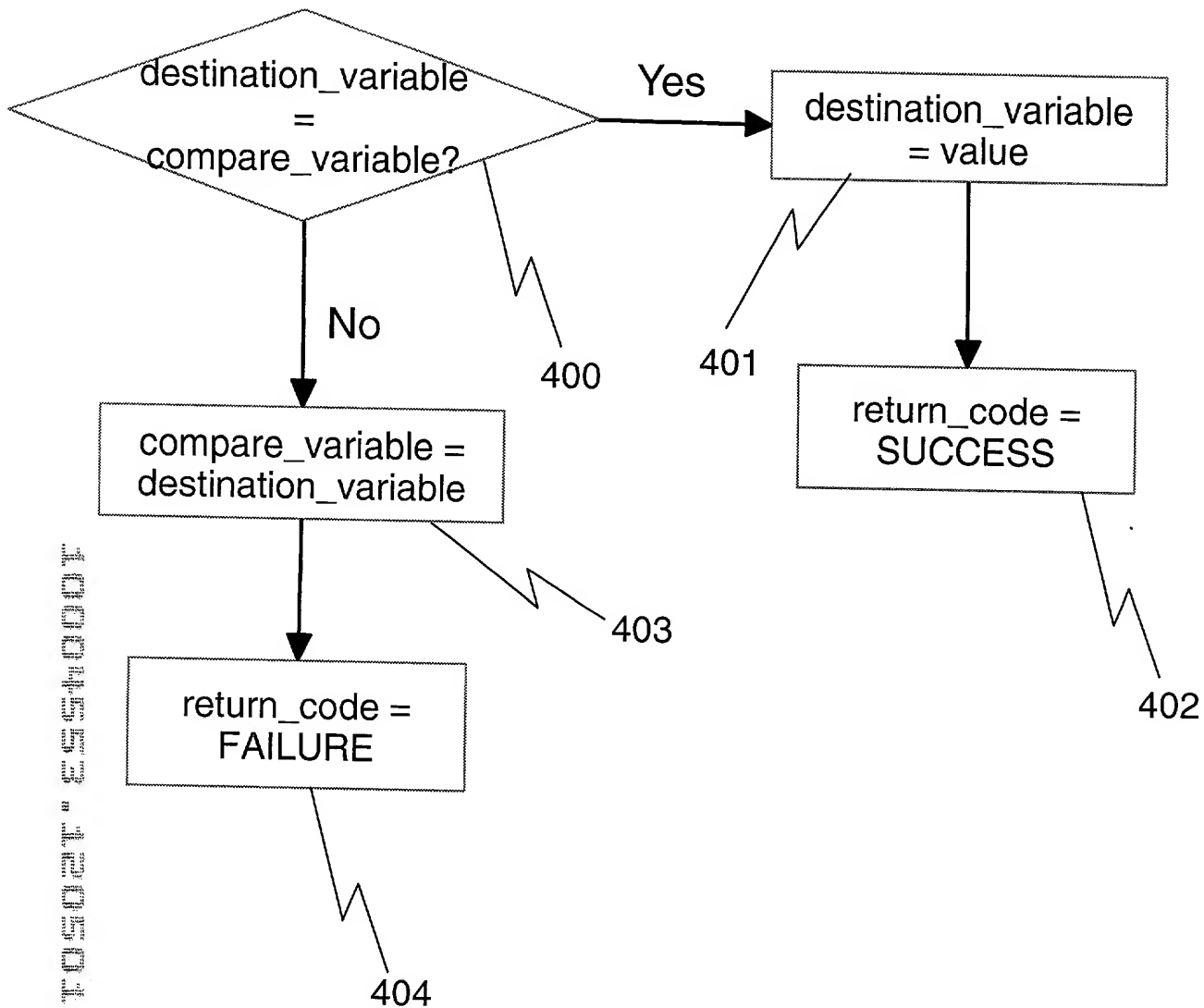


Figure 5D

Compare and Swap Flow



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Figure 6